

AC TO DC CONVERTER CIRCUIT

ABSTRACT OF THE DISCLOSURE

An AC to DC converter circuit 300 includes a transformer 316 having primary 314 and secondary 320 windings, a rectifier bridge 322 coupled to the 5 secondary winding, a DC filter capacitor 328 coupled to the rectifier bridge, a voltage regulator 330 coupled to the DC filter capacitor and to DC output contacts 332, 334. The converter circuit includes an AC reactance 312 coupled in a series circuit with the primary winding and AC input contacts 304, 306. The AC reactance limits AC excitation voltage at the primary winding to less than the AC 10 line voltage.